

WASHINGTON

HOME FURNACE



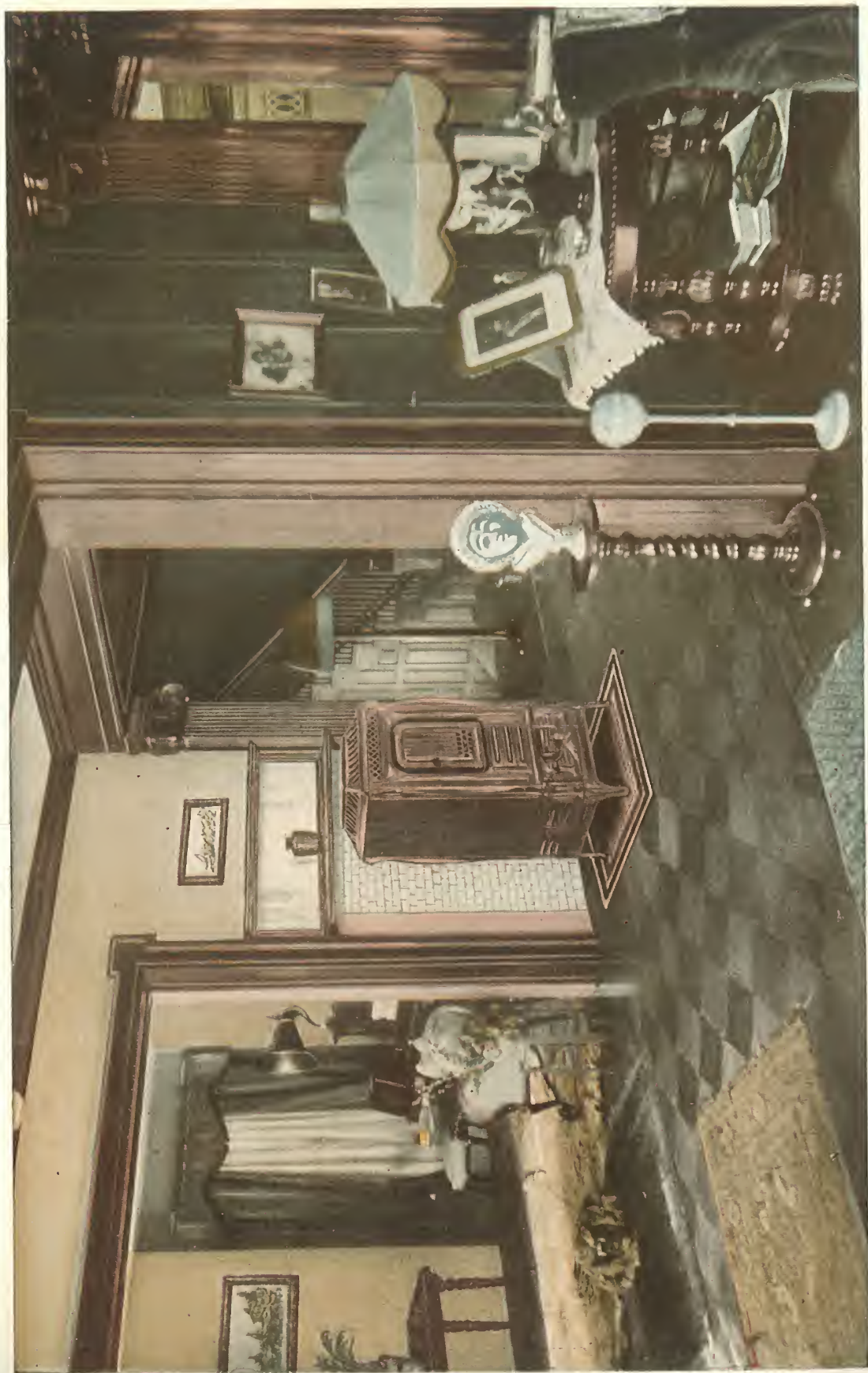
# *Heat — Beauty Economy*

GRAY & DUDLEY CO.

*Manufacturers*

NASHVILLE

TENNESSEE



THE ABOVE ILLUSTRATION SHOWS WASHINGTON HOME FURNACE INSTALLED IN A FINE HOME



# Heat • Beauty Economy



## Where Washington Furnaces Are Made

We Melt 100,000 Pounds of Southern Pig Iron Per Day



Foundry No. 1 (Foundry No. 2 Not Shown)

This large production insures minimum cost of manufacture.

# Washington Home Furnace

No. 1—Mahogany Finish

Grained Mahogany Finish. No Name on outside.

Washington Home Furnace is the only furnace made in grained mahogany finish without name plate on outside.



Both sides and back, porcelain enameled on genuine Armco Ingot Iron—rust resisting.

"NO—THIS IS NOT A VICTROLA"

Patented, No. 67583

## DESCRIPTIVE DIMENSIONS

Number	Fire Bowl	Extreme Height	Extreme Width	Depth	Grate	Weight Crated
No. 1-B Mahog. Finish	17 in.	51 in.	23 in.	23 in.	Shaker with Draw Center—Soft Coal	550 lbs.
No. 1-C Mahog. Finish	17 in.	51 in.	23 in.	23 in.	Three Bar Triplex Reversible Grate —Hard Coal	550 lbs.

Five

At last! A furnace  
for the living  
room.



# Washington Home Furnace

## No. 2—Plain Finish

Both sides and back of plain finish furnace made of polished Wells-ville blue steel. The entire front, top, base and all outside casings are polished with high - grade graphite stove polish, which gives the plain finish furnace a beautiful, brilliant grayish luster.



OPENINGS  
BELOW  
FIRE  
BOWL

You will notice openings in the sides of the Washington Home Furnace are below the fire bowl. Openings in other furnaces are opposite fire bowl, hence, intense heat radiating from fire bowl prevents cold air from being drawn in. This is one reason why Washington Home Furnace will produce 50% greater heat circulation than others.

### DESCRIPTIVE DIMENSIONS

Number	Fire Bowl	Extreme Height	Extreme Width	Depth	Grate	Weight Crated
No. 2-B Plain Finish	17 in.	51 in.	23 in.	23 in.	Shaker with Draw Center—Soft Coal	550 lbs.
No. 2-C Plain Finish	17 in.	51 in.	23 in.	23 in.	Three Bar Triplex Reversible Grate Hard Coal	550 lbs.

# Sectional View of Improved Washington Home Furnace

All Cast Iron Inner Construction

It will pay you to read this page carefully

The inner construction of all Washington Furnaces is made of extra heavy cast iron — not sheet steel.

We have found that if the combustion chamber or drum is made of sheet steel and the fire bowl made of cast iron, the expansion and contraction will not be the same. Consequently, the sheet steel combustion chamber will separate from the cast iron fire bowl, allowing smoke and ashes to enter the room. This is the very reason that we have adopted the all cast iron inner construction. The cast iron inner construction costs more, but gives years of extra service.

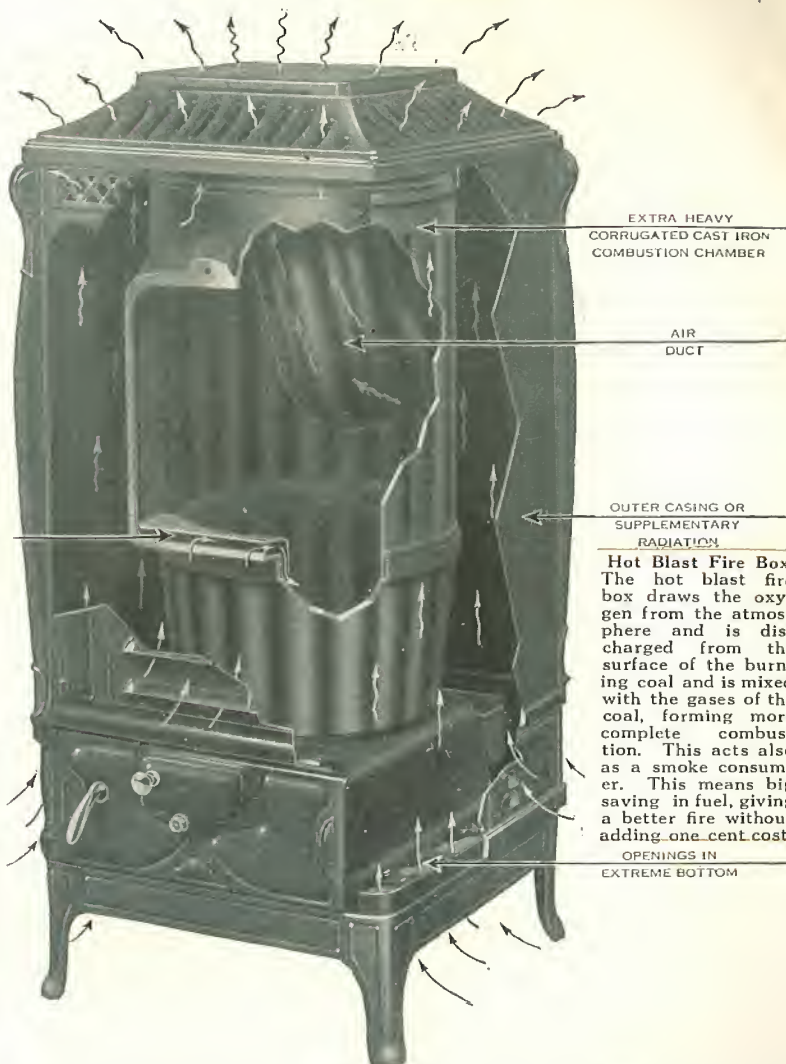
The extra deep lip joints of the inner construction of the Washington Furnace prevents soot or smoke from entering the room.

Furthermore, you may find some furnaces that have the ordinary stove putty in the joints, which soon becomes brittle and falls out. We use only genuine asbestos cement which causes you to receive more satisfactory service and gives a good tight joint at all times. It is a very important item in the construction of a furnace.

Extra Heavy Corrugated Cast Iron Drum is made in three sections, allowing for expansion and contraction. The corrugation prevents the drum from cracking, besides giving additional service, and produces more heat radiation.

Improved Six-Inch Corrugated Cast Iron Air Duct draws air from the outside right over the fire where it is intensely heated and forced out at the top. This produces 30% more heat with the same fuel.

Notice in the improved Washington Furnace there is a greater distance from the openings in the side at the bottom to the top than other makes of



**Hot Blast Fire Box**  
The hot blast fire box draws the oxygen from the atmosphere and is discharged from the surface of the burning coal and is mixed with the gases of the coal, forming more complete combustion. This acts also as a smoke consumer. This means big saving in fuel, giving a better fire without adding one cent cost.

furnaces. This gives greater heating surface and produces greater circulation of heat. This means the air has a longer distance to travel to be heated. The air passes between inner construction and outer casing or supplementary radiator, where it is intensely heated and forced out at the top.

Notice especially the openings in the side are below the fire bowl. If we had openings opposite the fire bowl, the intense heat radiating from the fire bowl would prevent these openings from taking in the air as they should. Notice also the air is taken in from underneath. This gives greater volume of heat circulation.

**Washington Furnace will not dry out the skin.**



## The Improved Air Duct Increases Heating Efficiency 30 Per Cent

The improved air duct is that large extra heavy 6-in. corrugated cast iron pipe which draws air from the outside right over the fire where it is intensely heated, and forced out at the top.

45 inches  
from  
floor to  
bottom of  
smoke  
pipe  
collar  
joint.



The improved air duct makes it possible for the improved Washington Home Furnace to heat 30% more space with the same amount of fuel, or heat the same space with 30% less fuel. If the improved air duct is removed from the new improved Washington Home Furnace, it will be necessary to burn 30% more fuel to produce the same amount of heat. This means at least 30% saving in fuel.

There are only three furnaces made with an air duct — the Washington and two others. We consider the improved air duct of the new improved Washington Home Furnace to be absolutely the best air duct made. The new improved Washington Home Furnace will cost you less than other furnaces fitted with an air duct.

Notice especially the long lip joint around the inner cast iron drum fits on to the fire bowl. This joint is also packed with genuine asbestos cement, making a joint that is absolutely gas and smoke tight.

With the ordinary heating stove, about 70% of the possible heat from the coal goes up the chimney and is wasted.

On account of the improved air duct in the Washington Home Furnace, the genuine Washington Home Furnace utilizes 75% to 85% of the possible heat from the fuel.

Ordinary soft coal contains about 40% volatile matter. The air duct gets red hot, and the volatile gases or fuel gases rise and strike the red hot air duct and are ignited before they have a chance to escape up the chimney and be wasted.

Wall of combustion chamber  $\frac{3}{8}$  inch thick. Wall of fire bowl  $\frac{1}{2}$  inch thick. As far as we know this is the heaviest construction known.

### How to Recognize the Genuine Washington Furnace

If you will open the door of the Washington Home Furnace and the Martha Washington Furnace, you will find the name of these two furnaces molded in raised letters on the smoke curtain and also on the inside of the door.

The name Frances Washington is molded in raised letters on the front of the Frances Washington Furnace.

There is no name or advertisement on the outside of the Washington Home Furnace or the Martha Washington Furnace.

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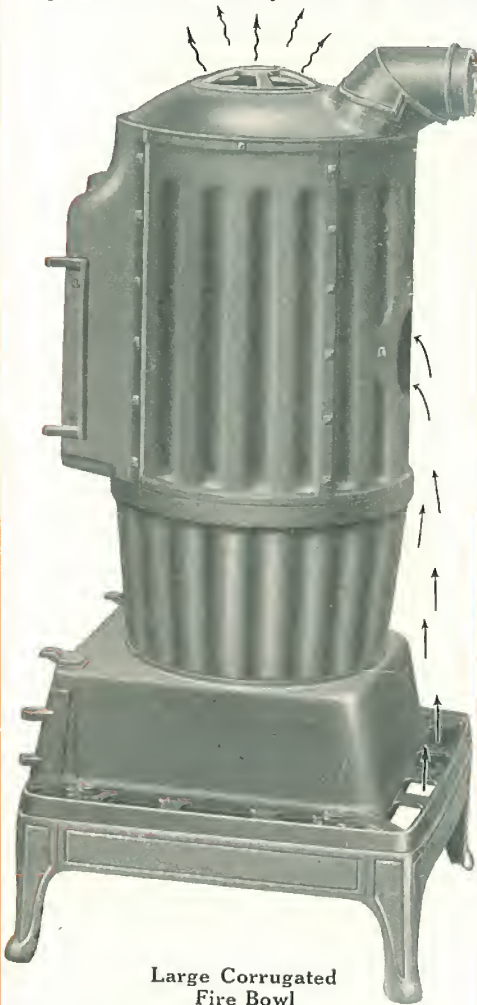
Rev. J. O. Babcock, Lynchburg, Virginia, writes: "The Washington Furnace does all and more than you claim for it."



# Extra Heavy Corrugated All Cast Iron Inner Construction

You will notice the extra heavy corrugated cast iron inner drum is made in three sections, which allows for contraction and expansion.

The large corrugations prevent the inner drum from cracking and warping. They also increase greatly the heating efficiency of the new improved Washington Home Furnace. These corrugations increase the radiating surface of the Washington Home Furnace inner construction, hence, produces considerably more heat than would be produced by an ordinary smooth surface.



Large Corrugated  
Fire Bowl

The fire bowl of the improved Washington Home Furnace is 17 inches in diameter. The sides are almost vertical. This prevents the fire from resting on the bottom of the fire bowl. These vertical sides also permit the fire to rest on the grate and allows for the circulation of air between the fire and the fire bowl. The grate can be replaced easily and quickly with little expense without dismounting the furnace. As far as we know, this is absolutely the best furnace construction known. Notice arrows entering air duct.

45 inches from floor to bottom of smoke pipe collar joint.

## Heats Home Comfortably with Thermometer 20 Degrees Below Zero

MILTON, VERMONT.

Gray & Dudley Co., Nashville, Tenn.

Gentlemen:

I purchased a Washington Furnace from Mr. J. E. Wagoner,



your dealer in this section. It may be of interest to you to know something of the service I have received from the furnace.

It is heating my house comfortably, both upstairs and down. I first used coal in the Washington Furnace, and 200 pounds of soft coal ran me two weeks, and then I began using blocks of wood which I had sawed into block from 6 to 8 inches long. This wood is heating my house to my entire satisfaction.

The furnace is installed in the living room, which is on the south side of the house. Mrs. Lapan says she sits by the window, which is on the extreme north end, and says she worked in the coldest weather we had, and the temperature has been 20 degrees below zero here some of the time, and you know northern Vermont winters are very severe.

Now, Mrs. Lapan says this is the most economical heating system she ever saw, and would not take \$500.00 for this furnace if she could not get another one. I can heat the house on a cord and a half of wood the whole winter, although I have been in the habit of using from ten to twelve cords during the winter. You can readily see it saves the price of the furnace in saving of wood in a very short time. I have had no trouble in running it, as I do not have to spend much time firing it.

Yours truly,

W. S. LAPAN.

The Washington Furnace saves the 40% heat that is usually wasted in the basement when a basement furnace is used.

# Martha Washington Furnace

Duplex Grates for Wood or Coal—No. 620, Walnut Finish



**Ingot Iron**

Sides and back  
made of genuine  
Armco Iron.

No. 620	Fire Bowl	Extreme Height	Extreme Width	Extreme Depth	Feed Door	Smoke Pipe	Weight Crated
Walnut Finish	21 in. Long 10 in. Deep 14 in. Wide	47 in.	28 in.	20 in.	12 in. High 10 in. Wide	7 in.	500 lbs.

**A cold home is never a happy home. Install a Washington Furnace.**

Ten



# Martha Washington Furnace

The Martha Washington Furnace looks very much like the new Orthophonic Victrola in shape, design, size and finish.

The Martha Washington Furnace will heat from four to seven rooms with circulating moist heat—the most healthful heat known.

## Walnut Enamel Finish

The Martha Washington Furnace is finished in a walnut enamel finish. We decided on a walnut enamel finish, because of the reason that the Orthophonic Victrola is sold in the walnut finish.

## Burns Wood or Coal

The Martha Washington Furnace is fitted with duplex grates, hence it will burn wood or coal with satisfactory results.

It will take a 20-inch stick of wood. One turn of the grate crank changes from wood to coal grate.

## Large Feed Door

The large feed door is in the end, and the ash door is in the end. The feed door will be fitted with air intake and the ash door, of course, will be equipped with draft door with which you can regulate the heat. The water pan is at the correct height to produce the proper amount of moisture. The illustration above shows the foot warmer of the Martha Washington Furnace. This special feature is making the Martha

## All Cast Iron Inner Construction

Like all other Washington Furnaces, no sheet steel whatsoever is used in the inner construction of the Martha Washington Furnace.

For a more complete description of the inner construction of Washington Furnaces, we suggest that you turn to page 5.

The Martha Washington Furnace produces more heat with less fuel.

The big heavy cast iron combustion chamber of dome of the inner construction extends above the pipe collar and holds the heat and holds the soot and the heat units immediately over the fire until they are consumed, instead of allowing them to go up the chimney, as is the case with other furnaces constructed with the pipe collar on top.

## Foot Warmer



"Draw up a chair and warm your feet"

Washington Furnace exceedingly popular, because a person coming into the home can warm his or her feet quickly and conveniently.

This special feature of the Martha Washington Furnace gives the foot warming comfort the same as a fireplace or heating stove.

The foot warmer is especially desirable when children are coming into the home from school with wet, cold feet. When the foot warmer is in use it does not interfere with the circulation of heat through the furnace.

## Hot Blast Fire Box

The hot blast fire box draws the oxygen from the atmosphere through feed door openings and is discharged upon the surface of the burning coal and is mixed with the gases of the coal, forming more complete combustion. This acts also as a smoke consumer. This means big saving in fuel, giving a better and hotter fire without adding one cents cost.

Put the furnace in the living room.

# Frances Washington Furnace

Duplex Grates for Coal or Wood

No. 200 and No. 300—Mahogany Finish

Heats  
two to four  
rooms.



Sides and back  
made of gen-  
uine Armco  
iron. Front, top,  
base and cor-  
ners made of  
cast iron.

## DESCRIPTIVE DIMENSIONS

Number	Inside of Fire Bowl	Extreme Height	Floor Space	Feed Door Opening	Size of Smoke Pipe	Weight Crated
No. 200 Mahog. Finish	17 ½ x 12 ½ x 10	44 in.	26x17	12x7	6 in.	390 lbs.
No. 300 Mahog. Finish	19x12 ½ x 10	46 in.	28x19	15 ½ x 8 ½	6 in.	435 lbs.



# Frances Washington Furnace

Duplex Grates for Coal or Wood

No. 202 and No. 302—Plain Finish



Both sides and back of plain finish furnace made of polished Wellsville blued steel.

The entire front, top, base, and all outside casings are polished with high-grade graphite stove polish, which gives the plain finish furnace a beautiful grayish luster.

## DESCRIPTIVE DIMENSIONS

Number	Inside of Fire Bowl	Extreme Height	Floor Space	Feed Door Opening	Size of Smoke Pipe	Weight Crated
No. 202 Plain Finish	17½x12½x10	44 in.	26x17	12x7	6 in.	390 lbs.
No. 302 Plain Finish	19x12½x10	46 in.	28x19	15½x8½	6 in.	435 lbs.

# Frances Washington Furnace

## All Cast-Iron Inner Construction

The inner construction of the Frances Washington Furnace is made of all cast iron and extra heavy, giving a lifetime of service. Will outlast three or four ordinary heating stoves, besides, produces as much heat as two or three ordinary stoves.

You will notice the inner construction is made in three sections, allowing for expansion and contraction. This construction prevents warping and cracking.

## Why Frances Washington Furnace Gives More Heat with Less Fuel

The big, heavy, cast-iron combustion chamber over the top of the fire pot extends up above the pipe collar and holds the heat, and holds the soot and the heat units immediately over the fire until they are consumed instead of allowing them to go up the chimney as is the case with other furnaces constructed with the pipe collar on top.

The pipe collar being in the back instead of on top allows the Frances Washington Furnace to be set immediately in front of the fireplace and the furnace connected up directly to the fireplace without any pipe other than the short piece of pipe running directly into the fireplace. This saves a lot of room and makes the Frances Washington Furnace take the place of a fireplace instead of a stove out in the center of the room. There are many thousands of old homes now using old-fashioned fireplaces that should be using a Frances Washington Furnace.

The joints are made extra deep, and packed with genuine asbestos cement. This prevents seams from opening and, besides, gives a gas-tight and smoke-tight construction, preventing smoke from entering the room.

You will notice the shape of the fire bowl permits practically all of the coal to rest on grates, hence this prevents burning out the fire bowl.

The No. 200 and No. 202 Frances Washington Furnace have a feed door opening of 12x7 inches.

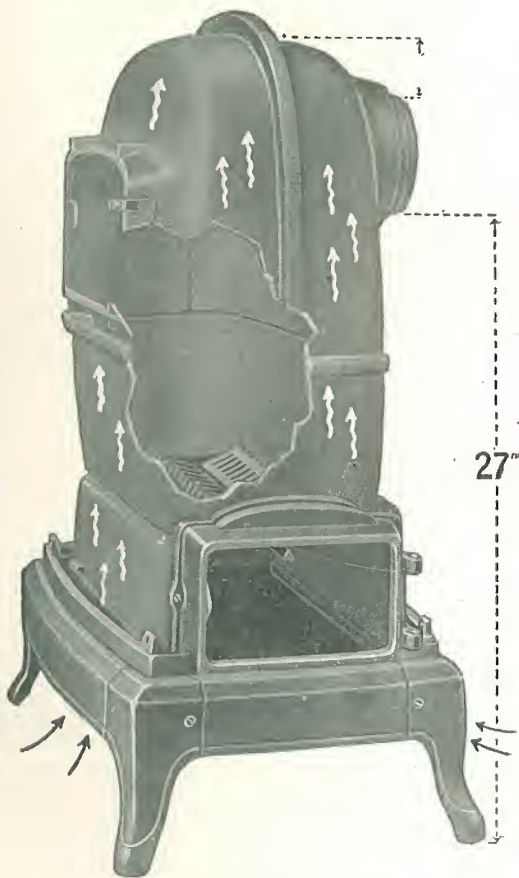
The No. 300 and No. 302 Frances Washington Furnace have a feed door opening of 15½x8½ inches.

This is another feature of the Frances Wash-

ington Furnace that is making it very popular, because it allows adding a liberal supply of fuel to the fire. This permits a larger lump of coal or a larger chunk of wood.

## Extra Large Dome

Notice the extra large dome of the inner construction, making the Frances Washington Furnace a wonderful heat producer.



NOTE—Dome of the inner construction of the Frances Washington Furnace is above the pipe collar. The fuel gases rise to the top of the dome and are held there until complete combustion is formed, instead of allowing them to go up the chimney, as is the case with other furnaces constructed with the pipe collar on top.

Mr. R. O. Richards, 715 Fourth Avenue, Trinidad, Colorado, writes: "My experience with the Washington Furnace sustains your claim of its service."



# Frances Washington Furnace

## Burns Coal or Wood

Frances Washington Furnace is fitted with duplex grates, hence burns either coal or wood. Duplex grates clean fire bowl of clinkers and ashes quickly and easily.

The Frances Washington Furnace burns either wood, soft coal, or hard coal, and there are a lot of people in this country who occasionally wish to burn wood or burn wood all the time. This furnace burns either wood, hard coal, or soft coal altogether satisfactorily. The big reason why we have such a wonderful furnace in our Frances Washington Furnace is on account of the pipe collar being in the back instead of on top of the furnace like all of the other furnaces.

Roomy ash pit—holds liberal supply of ashes. Ash pit fitted with ash pan.

## Heats from Two to Four Rooms

We have found there is a tremendous demand for a furnace that sets above the floor that will heat from two to four rooms with circulating, moist heat.

Frances Washington Furnace takes the air in at the bottom and through the louvers which are below the fire bowl, and the air is heated and forced through the top. This causes a continuous circulation of heat.

## Heating Capacity Four or Five Times Greater Than Large Stove

Frances Washington Furnace is no larger than the ordinary heating stove, yet has a heating capacity four or five times greater than the largest size heating stove, and ample capacity to heat any ordinary three- or four-room house comfortably warm.

## Fire Glow Feed Door

Frances Washington Furnace is fitted with fire glow feed door which is so desirable by a large number of people, as you can see the fire through the fire door, adding cheerfulness to the room.

## Circulating Moist Heat

Circulating heat alone is not the most healthful heat. Any heat to be healthful must have the necessary amount of moisture. The water pan at the top produces the proper amount of moisture, producing circulating, moist heat, which is the most healthful heat known.

## "Draw Up Your Chair and Warm Your Feet"



The inner construction of the heat-producing unit of the Frances Washington Furnace is built near the floor. Consequently, the floor around the Frances Washington Furnace is always comfortable and warm.

This is especially desirable for warming the feet. As the Frances Washington Furnace is a "foot warmer," is one reason why it is growing by leaps and bounds in sales, and proving to be perhaps one of the most popular furnaces now on the market.

The water pan is located immediately under the swing top, and can be easily filled through the swing top. The swing top permits the water pan to be removed for easy cleaning.

## Grained Mahogany Finish

The entire outside of the Frances Washington Furnace is finished in grained mahogany finish. This enamel finish is baked on at 1,700 degrees, which is 500 de-

grees hotter than red-hot iron, hence will not burn off. There are no nickel parts or black parts to polish, hence Frances Washington Furnace is easy to clean.

## Twenty-Seven Inches from Floor to Bottom of Collar Joint

You will notice from the illustration that it is only twenty-seven inches from the floor to the bottom of the collar joint, hence the Frances Washington Furnace can be connected to any grate or fireplace with satisfactory results. This is one reason why the Frances Washington Furnace is so exceedingly popular.

Uniform heat is a healthy heat. Install a Washington Furnace.

# Circulating Moist Heat

Medical authorities all agree that the most healthful heat known is circulating moist heat. Our engineers have given considerable thought to this problem.

## Washington Furnace Heats by Heat Circulation Instead of Heat Radiation

Cold air descends to the floor and hot air rises to the ceiling. Washington Furnace draws or "sucks" the cold air from the floor from all corners of the house through the louvers or openings in the extreme bottom, and in the sides at the bottom of the furnace. This air passes between the inner construction of the Washington Furnace and the outer casing or supplementary radiator, where it is intensely heated and forced out at the top. This process of heat circulation is continued until the entire home is evenly heated.

### Ventilation and Heat

To have correct and healthful heat, it is necessary to have ventilation in addition to heat. In circulation of heat produced by Washington Furnace, there is also ventilation. This eliminates the close stuffy heat as is the case with ordinary heating stoves. No cold corners. You can place a thermometer in each corner of room and you will find the corners of room comfortably warm. Think what this means not only for the health of your family, but for the comfort of your guests. Your guests will be warm and comfortable without any additional effort or expense on your part.

### How Many Rooms Will It Heat?

We are often asked how many rooms will the Washington Furnace heat. It is impossible to give a definite answer to this question, because it depends upon the climate, arrangement of the building, arrangement of the partitions between the rooms in the building, location of the building and the general construction of the building. It depends upon whether the building is a compact building or one that covers considerable ground, or height of ceiling.

The improved Washington Home Furnace will heat approximately 10,000 cubic feet of

space. It will heat the average home of from four to seven rooms.

The Martha Washington Furnace has approximately the same heating capacity of the improved Washington Home Furnace. It will heat from four to seven rooms.

The Frances Washington Furnace will heat from two to four rooms.

It is understood that it is necessary for the Washington Furnace to be properly installed and located in the home. It should be located as near the center of the building as possible.

### No Register Holes to Cut in the Floor

The Washington Furnace saves the expense and trouble of cutting register holes in the floor, which are necessary with the old-style basement furnace. Register

holes not only require floor space but frequently furniture must be re-arranged on account of floor registers. Furthermore, when joists are cut in sawing out register holes, the floor is weakened to a certain extent. No alterations whatever necessary when installing the Washington Furnace.

As there are no register holes to cut in floor, no cellar to dig, no alterations whatever necessary, a person renting his home can enjoy furnace heat because it is no more trouble to install Washington Home Furnace than ordinary heating stove, and when the man that is renting his home moves, he can take the Washington Furnace with him the same as an ordinary stove.



Washington Furnace will keep the moisture in your body. It prevents sickness.



## Healthful and Comfortable Circulating Heat

All Washington Furnaces produce circulating moist heat—the most healthful and comfortable heat known. Circulating moist heat at 65 degrees is more comfortable than dry radiating heat at 75 degrees.

You cannot underestimate the comfort to be derived from circulating heat. It is no longer necessary to huddle over the fireplace or the ordinary heating stove. It is just as comfortable sitting some distance from the Washington Furnace as it is close to it.

Little tots playing on the floor are also comfortable. The entire house is evenly and comfortably heated. Think what this comfortable heat means when guests are in your home. This adds to their pleasure and comfort and helps to create that warm, hospitable and cheerful atmosphere, and your home will be noted for its hospitality and comfort.



Likes Washington Furnace exceedingly well. Holds fire and saves coal.

TWIN FALLS, IDAHO

Gray & Dudley Co.,  
Nashville, Tenn.

Gentlemen:

I have now used the Washington Furnace and like it exceedingly well. It does the work and does not use anything like the coal the old stove used.

I can highly recommend your Washington Furnace.

Yours truly,  
B. A. SWEET.

### Which Home Is Yours?

It is no longer necessary for you to endure the uncomfortable, unhealthful and expensive fireplace heat.

If you are trying to heat your home with fireplaces or grates you are using the most unsatisfactory and the most expensive heating system known. Statistics show that 85% to 90% of the heat from grates goes up the chimney. You receive only 10% to 15% of the heat from the fuel. Furthermore, when you are trying to keep warm with a fireplace your face is burning and your back is freezing. This is very uncomfortable and unhealthful.



Mr. Josiah DeLong, Oakland City, Indiana, writes: "I find the Washington Furnace a great success. The appearance is very pleasing."

## Water Pan at Correct Location—Distribution of Moisture

Circulating heat alone is not the ideal heat. There must be humidity or moisture in the heat for it to be healthful.

### The Health of Youth and Age Depends on Proper Heat



350°  
←

The National Warm Air Heating and Ventilating Association advises, that heating the home that shelters the growing child or frail old age is a serious matter. Proper heat plays a most important part in their health and comfort.

250°  
←

In this constant atmosphere of warm, moist, re-circulating air, human life is protected against the many ills which come from sudden weather changes, from disease which breeds in stagnant air, from the unhealthy effects of dead, dry air.

125°  
←

The illustration of the Washington Home Furnace at the left will give you an idea of the temperature of air at the different heights next to the furnace.

80°  
←

In each Washington Furnace the water pan is so arranged and so located to produce the proper amount of moisture. The proper distance between the inner construction and the water pan has been allowed to create the proper amount of moisture.

We advise that you install a Washington Furnace, and you can be sure of getting circulating moist heat — the most healthful heat known. The children and the aged in your home will be well protected with moist healthful heat.

### Moist Heat Does Not Crack Furniture or Warp Doors

Moist heat is not only the most healthful heat known, but moist heat does not crack furniture and woodwork or warp doors. It does not affect veneer on furniture like dry heat.

Moist heat from Washington Furnace DOES NOT PRODUCE HEADACHE.



Mrs. N. B. Watkins, Northfork, West Virginia, writes: "I am heating seven rooms with a Washington Home Furnace and find that it gives perfect satisfaction."



# What Is Your Child's Life Worth?

## SAFETY FIRST

How often do we read in the newspapers of the tragic accident of children falling into the fire, or persons' clothing burning from open fireplaces? Washington Furnace removes this danger. The outside of the ordinary heating stove is hot and dangerous. How often do we read of homes burning from overheated stoves? Children can play with safety around Washington Furnace, as the outside casing or supplementary radiator and inner construction. Furniture or wood-work near Washington Furnace will not blister. A person falling against Washington Furnace will not get severely burned.

## Healthful Heat for Children

The Washington Furnace is not only the safest for the home in which there are children, but it is the most healthful heat for children, because the Washington Furnace produces circulating moist heat and heats the whole house. It is not necessary for children to play in cold corners as is the case with the open fireplace or stove. Cold corners often produce cold, grippe, and sometimes pneumonia.

A warm comfortable home is a happier home.

## CHILD FALLS INTO GRATE AS FATHER SLEEPS; DIES

Baby Burned to Death While Mother Attends Easter Service

BOWLING GREEN, KY., April 6.—The child burned to death early Sunday morning at the home of his parents. Mrs. Gaines went to attend early morning services at the Bedford Catholic Church and left the child with his father. Mr. Gaines went to sleep, and while the child was playing it fell into an open grate.



FULL REPORT OF ASSOCIATED PRESS

## Child Burned by Fall Into Grate Dies of Injuries

20-Month Old Infant, Loybell Parson, Succumbs at Hospital.

Loybell Parson, 1 year and 8 months old, succumbed early Saturday night to severe burns received about 7 o'clock that morning, when she fell into an open grate at the home of her parents, Mr. and Mrs. L. H. Parson, 1309 Martin street.

The child, it is said, had only been up a short while, and was in front of a newly-lighted fire, when in some unexplained manner, she fell and her clothing became ignited. She was severely burned on the face, arms and chest.

The parents rushed her to the General hospital, where it was at first thought she would live. Late in the afternoon, however, her condition took a sudden turn worse and she succumbed at 6:30 o'clock. The little girl was conscious throughout the day.

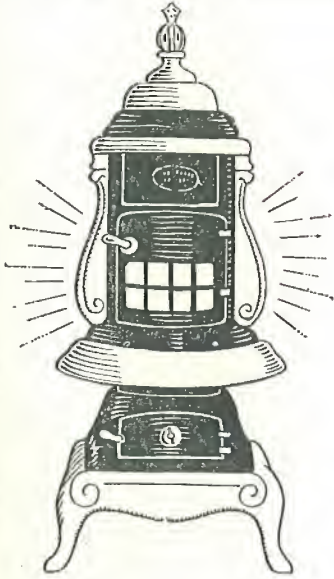
## Clean Heat — Clean Home

The great heating efficiency of the Washington Furnace is due to the fact that it heats by heat circulation and not heat radiation like the ordinary heating



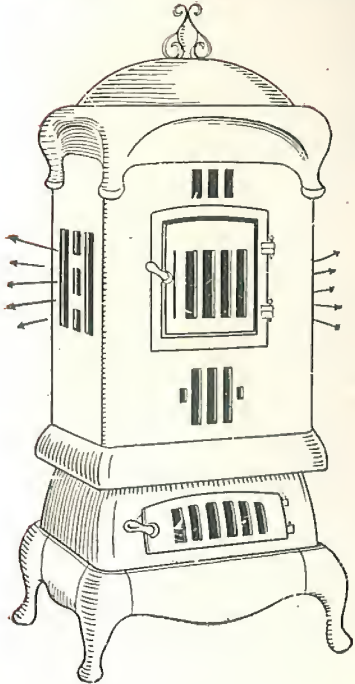
stove. It is a different principle entirely. The ordinary heating stove heats only the air around the stove because it radiates heat. The Washington Furnace heats space some distance from the furnace because it heats by circulation which is the most efficient heating method known.

The space between the outer casing or supplementary radiator and inner construction serves as flue which draws or "sucks" the cold air from the floor, where it is intensely heated and forced out at the top. This process is continued until the entire air around the Washington Furnace is in circulation.



### We Are Striving

We are constantly striving to improve the Washington Furnace. Every improvement that is practical and necessary, is embodied in the Washington Furnace. This is the reason that when you invest in a Washington Furnace you are sure of getting the most improved and best furnace construction.



### Warning—Not an Open Jacket Stove

We advise our customers to be careful in buying furnaces. Some makes of furnaces on the market are only open jacket stoves, but are advertised as home furnaces.

### How to Tell the Difference Between Open Jacket Stove and Home Furnace

Study illustration to left. You will notice that there are openings in the sides about half way between bottom and top. These openings make it impossible for heat to circulate. Consequently you have only heat radiation as is the case with ordinary heating stove. Open jacket stove is just an ordinary heating stove dressed up. Be sure that the stove you buy has closed sides from bottom to top, and openings at the right location, as shown in the illustration of Washington Furnace in upper left hand corner.

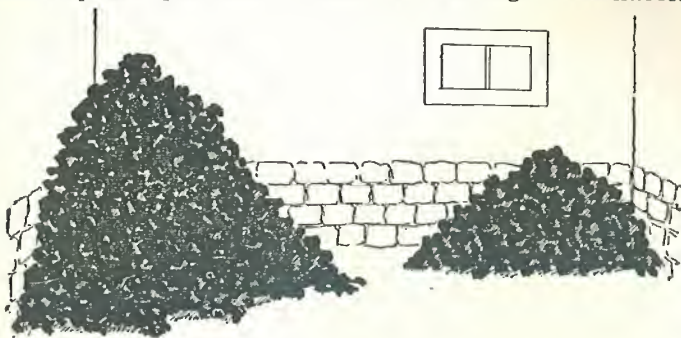
The long, cold winter nights will be enjoyed more if the home is comfortably and well heated with the Washington Furnace.



## Your Coal Bill Cut One-Third to One-Half

Washington Furnaces will save one-third to one-half on your coal bill. We make this statement based upon experience of users of Washington Furnaces.

A merchant of Harts-ville, Tennessee, occu-pies one-half of a large store building. His brother occupies the other half. Both sides of the building have the same space to heat. The two brothers buy coal out of the same car. One side of the building is heated by the Wash-ington Home Furnace. The other side is heated with an ordinary heating stove. The Washington Home Furnace heats the first floor and the second floor comfortably. The two ash piles are in the back of the building and almost side by side. The ash pile from the coal used in the Washington Home Furnace is about one-third the size of the ash pile from the coal used in the heating stove.



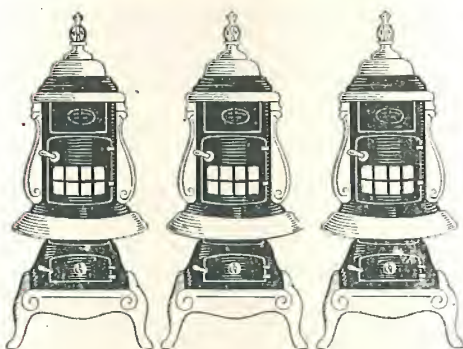
Mr. C. R. Allison, Cashier of the Home Bank of Bruceton, Tennessee, tells us that he can burn a very low-grade of coal in the Washington Home Furnace very satisfactorily. This means other saving.

Mr. L. W. McCuan, of Dresden, Tennessee, tells us that his coal bill has been greatly reduced by using the Washington Furnace.

Mr. B. A. Sweet, of Twin Falls, Idaho, says: "The Washington Furnace does not use any-thing like the coal the old stove used."

If you are not using a Washington Furnace you are doubtless paying for one-third of your coal bill without needing the coal.

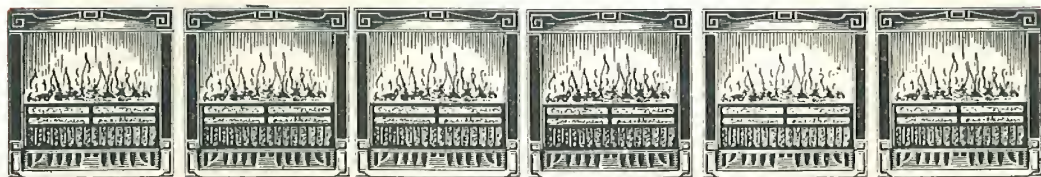
### Will Heat as Much as Two or Three Stoves or Several Fireplaces



If you are trying to heat your home with the old-fashioned in-efficient fireplaces or grates, or the ordi-nary heating stove, you owe it to your-self for purely finan-cial reasons to install the Washington Fur-nace. You also owe it to your loved ones, because of its health-ful circulating moist heat. It will add greatly to their com-fort and happiness.



If you are trying to heat your home with grates and fireplaces you are using the most expensive heating system known, because about 80% or 90% of the heat goes up the chimney. An effort has been made to improve the wasteful and inefficient method of heating by grates—hence the heating stove was designed. Stoves confine heat only—they heat by radiation only, and heat only the air near them. Rooms heated by stoves or grates are unevenly and inefficiently and expensively heated.



Mr. W. A. Vandeventer, Gracemont, Oklahoma, writes: "I have heated four rooms this past winter with only two tons of coal."

## Beautiful Grained Enamel Finish

All Washington Furnaces can be furnished in the grained enamel finish. The enamel finish is made in an imitation of the natural wood.

The illustration in the inside front cover of this book shows that the Washington Furnace harmonizes with the finest furniture.



"No—This is not  
a Victrola"

### Finish Baked on at 1700 Degrees

The enamel finish is baked on at 1700 degrees temperature, which is 500 degrees hotter than red hot iron. The enamel really becomes a part of the metal itself.

We guarantee the enamel not to peel or blister from heat. The enamel is not a varnish enamel applied with a brush.

### Easy to Clean

The beautiful enamel finish reduces work and drudgery of house cleaning. No nickel parts or black parts to polish. It may be washed with warm water and soap. No water should be applied while the furnace is hot.

Although the Washington Furnace is exceedingly beautiful in appearance, we have not sacrificed heating efficiency and comfort in order to produce beauty.

## Acid or Fruit Juices Will Not Stain Grained Mahogany Finish

One great feature of the fine grained enamel finish on the Washington Furnace is: It will not stain from acids or fruit juices. If an apple peeling or orange peeling comes in contact with the Washington Furnace the finish will not be stained. Chemicals or acids will not leave stain on this beautiful finish. Consequently you have a permanent beautiful finish. There is no work in keeping finish clean and bright.

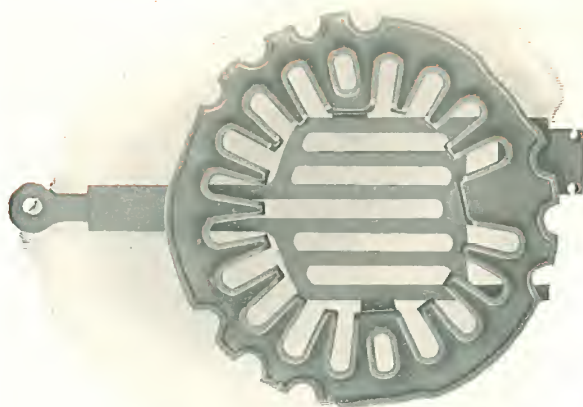
The grained enameled finish on the Washington Furnace will not change its color or tarnish as is the case with inferior furnaces. It will not scratch except under unusual circumstances or abuse. No scratch marks will be left on finish to mar its beauty.

### The Acid Test



Mr. W. S. Lapan, Milton, Vermont, writes: "A Washington Furnace is heating my home comfortably with the temperature 20 below zero."



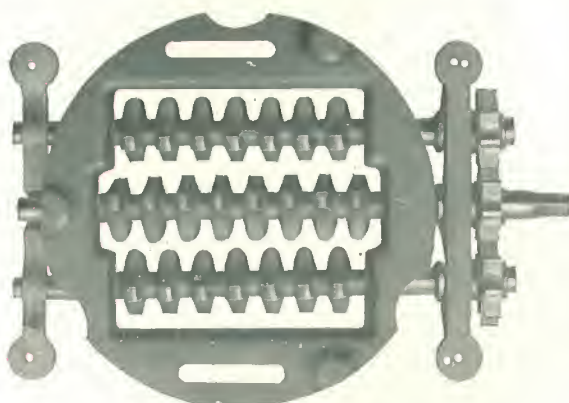


## Shaker Grates

Washington Home Furnace is fitted with shaker grates which are extra heavy with draw center which prevents clinkers falling into the ash pan.

Shaker grates are made especially for soft coal.

A new grate can be installed in a few minutes without dismantling the furnace.



## Triplex Grates

The new improved Washington Home Furnace can be furnished with triplex grates. The triplex grate is adapted especially to hard coal.

There is one special feature of the improved Washington Home Furnace with triplex grates that we want to mention. The grate crank cannot be removed unless the flat sides of the grates are against the fire. This prevents burning off the end of the grate bars. This adds considerably to the life of the triplex grate. The triplex grate will not be furnished unless specified. However, there is no extra charge for the improved Washington Home Furnace fitted with triplex grates.

Shaker Grate Will Be Shipped Unless Otherwise Specified

## Frances Washington Furnace and Martha Washington Furnace Fitted With Duplex Grates — Burn Wood or Coal

Turn to page 14 and you will find an illustration showing the inside of the Frances Washington Furnace. This cut illustrates also the duplex grates that are in the Frances Washington and Martha Washington Furnaces.

Duplex grates permit the burning of wood or coal. One turn of the grate crank changes from a wood grate to a coal grate.

We do not say that a Washington Furnace is the only way to heat a home, but we do claim that a Washington Furnace will heat a home more economically and more conveniently.

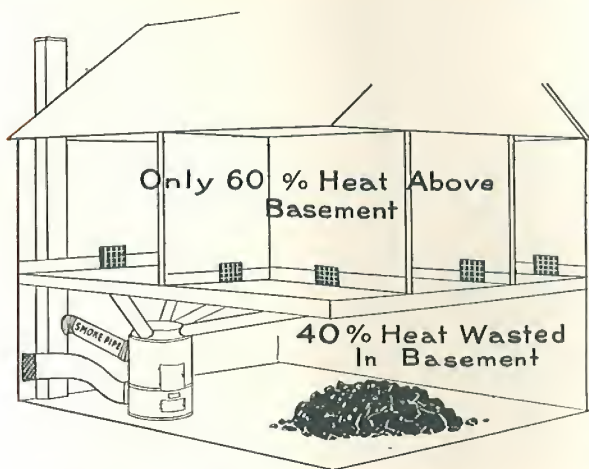
## Only 60 Per Cent Heat Above Basement

It has been carefully estimated that only 60% or less heat from a basement furnace gets above basement.

Notice from the illustration below 40% of heat from the basement furnace is wasted in the basement.

The Washington Furnace gives you all of the heat it produces or 100% above the basement, where the heat is needed.

The radiation from the basement furnace itself and also the furnace pipes is responsible for a large amount of wasted heat in basement.



### Your Body Consists of 70% Moisture

When your body becomes exceedingly dry it gives the "germs" a greater opportunity to get in their deadly work.

The body requires a certain amount of moisture at all times to be in a healthful condition. Dry radiating heat absorbs or draws from the body a certain amount of moisture.

Moist circulating heat as produced by the Washington Furnace adds moisture to the body. Hence, it is much more healthful and comfortable than dry radiating heat.

### Heat Escapes Through Smoke Pipe

It is only necessary for you to stand near the smoke pipe of a basement furnace when furnace is in operation for you to get an idea of the amount of heat that escapes up the smoke pipe. This heat is absolutely wasted. This is one reason why a basement furnace is expensive to operate.

### Washington Furnaces Prevent Heat from Escaping Up the Chimney

The Washington Home Furnace is equipped with an air duct. This prevents a large percentage of heat from escaping up chimney. Because the air duct gets red hot and the fuel gases from the coal rise and strike the red-hot air duct and are ignited, and this prevents them from escaping up the chimney.

The large heavy cast iron dome of the

Martha Washington Furnace and Frances Washington Furnace extends above the pipe collar. The fuel gases rise to the top of this dome forming a more complete combustion before they have a chance to escape up the chimney. A large part of fuel gases are consumed in the top of this dome.

### Why Washington Furnaces Are More Desirable than Basement Furnaces

In the fall and spring when only a small amount of heat is needed, a small fire with very little fuel can be made in the Washington Furnace. You realize it is very difficult to make a fire of any kind in basement furnace without using considerable fuel. The Washington Furnace for this purpose is more convenient and more economical than a basement furnace. This one feature alone makes the Washington Furnace exceedingly desirable.

Washington Furnace reduces doctor's bill.



## Clean Heat — Clean Home

How often have you seen furnace registers smoking, doing damage to curtains, draperies, wall paper, and furniture. The Washington Furnace saves you this annoyance and expense.



No Smoking Registers

No longer necessary to endure the soot, dirt, and inconvenience of the old-style basement furnace.

The Washington Home Furnace eliminates the necessity of running up and down cellar steps to fire furnace. This is especially important in the home where it is necessary for housewives to go to the basement during the day to fire furnace. The old style basement furnace often fills the basement with smoke, and the person firing the furnace will inhale a large amount of smoke.

### No Smoke-Laden Air to Inhale

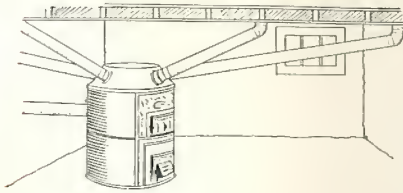
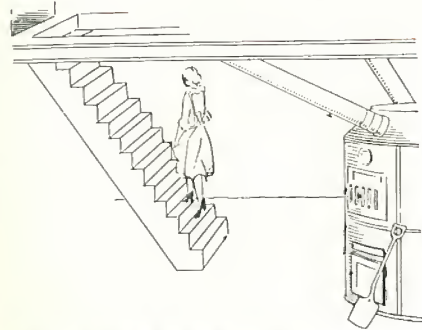
Frequently in firing a basement furnace, smoke belches out the feed door. The air becomes laden with smoke. Smoke-laden air is injurious to the lungs. This is one reason why Washington Furnaces are so popular with women—no smoke-laden air to inhale. **No basement furnace was ever made for a woman to fire.** A woman can fire a Washington Furnace as easily as an ordinary heating stove or fireplace.



Mr. F. M. Brockway, Fredonia, Kansas, writes: "We have a difficult home to heat, but the Washington Furnace is solving the heating problem satisfactorily."

## No Running Up and Down Cellar Steps

Washington Furnace makes it unnecessary to run up and down cellar steps, as is the case with the old-style cellar furnace. This eliminates tiresome, unpleasant, dirty visits which are necessary several times each day to fire the ordinary basement furnace. This fact will be especially appreciated by women.



### No Wasted Cellar Heat

There is considerable waste when the furnace is placed in basement. Because not only the furnace itself radiates heat in the basement, but the furnace pipes or heat pipes also radiate heat. This is wasted heat because it gives heat where it is not wanted.

There is no wasted cellar heat from the Washington Furnace because Washington Furnace is installed on the floor and not under the floor, and all the heat is circulated in the room where heat is needed. This will mean a big saving in your coal bill. No furnace pipes to buy.

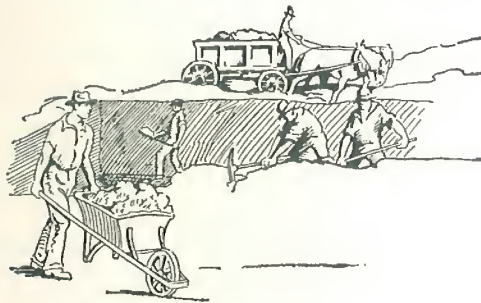
The Washington Furnace can be installed as quickly and with as little trouble as an ordinary heating stove. This is also a big saving to you.

If you move you can take the Washington Furnace with you.

## No Cellar to Dig

When you eliminate the expense of digging a cellar you have more than saved the cost of the Washington Furnace. If you are building a new home and contemplate using old-fashioned grates or heating stoves, it will be necessary to have chimney or flue for each grate or stove. Washington Furnace saves this big expense also. It costs from \$300 to \$500 to dig a cellar. Ordinarily with small, medium sized houses, the house is also elevated when a cellar is dug. This also adds to the expense. When no cellar is dug the house can be built in much less time, to say nothing of the big expense of digging the cellar.

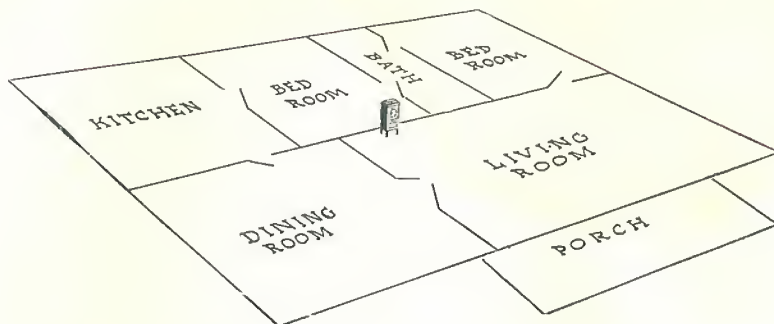
On account of the circulating moist heat and the beautiful grained enamel finish the Washington Furnace can be installed in the living room. Hence, you save the big expense of digging a cellar.



A home is used and appreciated more in the winter, because people are out of doors mostly in the summer. Why not have your home warm and comfortable during the cold winter months?



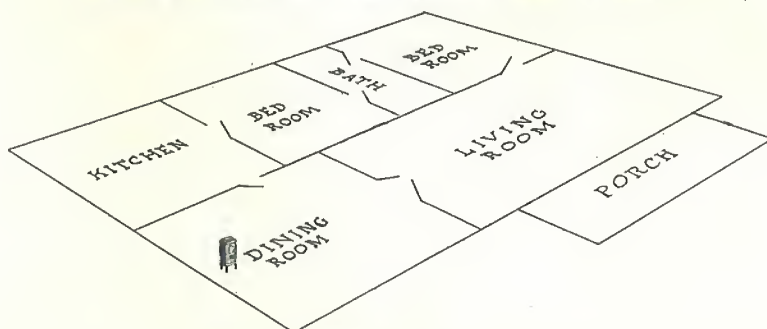
## Correct Location of Washington Home Furnace



Our advice is that every Washington Furnace should be installed as near the center of the house as possible. If you are in doubt about the correct location of the Washington Furnace in your home, send us a rough floor sketch of your home with dimensions of each room and our expert heating engineer will advise you as to the proper location of the

Washington Furnace in your home. There will be no charge for this service as we are anxious for every Washington Furnace to give absolute satisfaction. Make a cross mark on the sketch you mail to us indicating the position you prefer to install the Washington Furnace.

## Wrong Location of Washington Home Furnace



The above sketch shows the wrong location of the Washington Furnace in home. You will notice it is located near one corner of the home. This makes it difficult to heat satisfactorily the more distant rooms and far corners of the home. However, many Washington Furnaces so located have given satisfactory service, but we do not recommend this location.

The best heating system in the world will give poor service and prove expensive to you unless properly located and installed.

We advise you to consult your Washington Furnace distributor before you decide on any heating system. He can be a real service to you.

## Correct Chimney Construction

We cannot place too much importance on correct chimney construction. We can furnish you, **FREE OF CHARGE**, a book giving correct chimney construction. This book contains recommendations of chimney construction by the National Board of Fire Un-

derwriters. If you are building a new home by all means get this book. We make no charge for it. It is necessary to have a good chimney before any heating system will give satisfactory service.

## Only One Chimney to Build

If you use heating stoves or fireplaces it is necessary to build several chimneys. Only

one chimney is necessary with the Washington Furnace. This means a big saving to you.

# Everyone Appreciates Comforts of Furnace Heat

The Washington Furnace brings furnace heat and comfort to every home—with or without basement.

## Two-Thirds of Your Life Is Spent in Your Home

Most of us fail to realize what the home really means to us. Surely nothing should be spared to add to the comforts, pleasure, and health of our loved ones. You invested in your home to add to the comfort of your family, and when your home is poorly heated you are not getting full benefit from your investment. Your investment is impaired to that extent. Don't expose members of your family to danger of cold and draughty rooms and halls.

## Increase the Value of Your Home

You invested a large sum of money in your home. Any real estate man will tell you it is difficult to sell a home unless it is equipped with a modern heating plant. The day you install a Washington Furnace your home increases in value 10 to 20%. The Washington Furnace is not an expense, it is an investment. Modernize your home with a Washington Furnace.

## Your Family's Health Your Most Valuable Asset

Close, stuffy heated rooms will produce colds, grippe and pneumonia. Your children playing in non-circulating dry air endangers their

health. Members of your family will come from overheated room to adjoining room that is cold and draughty. This produces cold. Your family physician will tell you a home that is evenly heated throughout reduces danger of cold and exposure to the minimum.

## Washington Furnace Is Not an Experiment

The Washington Furnace has been used in a large number of homes in practically every state in the United States. It has given a wonderful account of itself in every section of the country — in New England, in the Northwest, where the winters are severe and where a heating system is put to a real test. We have received a large number of voluntary letters from users from practically every state in the Union, speaking enthusiastically of the Washington Furnace. We are reproducing in this book extracts of just a few of the letters we have received.

## Sixty-Five Years Reputation Protects You

Gray & Dudley Company has been in business in Nashville continuously for sixty-five years, and during this time has manufactured millions of Washington stoves and ranges. This reputation of sixty-five years of fair and honest dealing takes all the fear and anxiety out of buying. This is real protection for you.

The Washington Furnace is nationally advertised, and you doubtless have read about the Washington Furnace in one of your favorite periodicals.

We cannot afford to advertise the Washington Furnace nationally unless it is a standard high-grade and efficient heating system.

Illustration to the right shows some of the periodicals carrying Washington Furnace advertising.





## See Your Washington Furnace Distributor Today

The Washington Furnace can be installed at any time of the year, because you will want it to remain in position on account of its unusually handsome appearance. It will add to the appearance and the fineness of any home. Not necessary to take down in the Spring and set up again in the Fall. You can carry it with you when you move.

We sincerely advise you not to wait until fall to install your Washington Furnace. We experienced considerable difficulty last fall in trying to supply the demand for Washington Furnaces. Owing to the fact that the Washington Furnace has given such a wonderful account of itself, we know that we will have still greater trouble in supplying the demand this year. There will be many more people wanting Washington Furnaces than ever before.

Our honest and sincere advice to you is, to consult the Washington Furnace distributor in your section. He will be glad to go over with you your heating problem. He is thoroughly

familiar with heating problems and can render you a real service. His experience should prove valuable to you.

### Free Advisory Service

If you prefer, you can write us direct about any of your heating problems, and you will receive the benefit of the experience and advice of our experts.

There will be no obligation whatever on your part. We are anxious to serve you. We want every Washington Furnace properly installed. Just send us a rough sketch of the floor plan of your home or building, giving us the dimensions of the space to be heated.

## Washington Furnace Is an Investment

and not an expense. It will increase the value of your home. Let your family begin today to enjoy the comfort and convenience of furnace heat. You will never regret it.

You will be paying for a Washington Furnace whether you use it or not. **BEGIN TODAY TO REDUCE YOUR COAL BILL.**







# WASHINGTON FURNACES

Heat Whole House at Cost of Heating One Room



"No—This is not a Victrola"

WASHINGTON HOME FURNACE

## Washington Home Furnace

The Washington Home Furnace heats from five to seven rooms with circulating moist heat—the most healthful heat known.

Fitted with an air duct which saves 30% of fuel. Air duct prevents fuel gases from escaping up the chimney.

Burns soft or hard coal or coke.

All Cast Iron Inner Construction. (Not sheet steel.)

Heats as much as three or four stoves or five or six fireplaces. All openings below fire bowl. Air has a greater distance to travel to be heated. Another reason why the Washington Home Furnace produces more heat.

No name plate or advertisement on the outside. Looks like fine mahogany furniture. Easy to clean.

Grained mahogany and plain finishes.

## Martha Washington Furnace

Burns wood or coal.

Will take a 20-inch stick of wood.

Heats from five to seven rooms with circulating moist heat.

All cast iron inner construction. (Not sheet steel.)

The large extra heavy dome extends above the pipe collar and holds the heat and holds the soot and the heat units immediately over the fire until they are consumed, instead of allowing them to go up the chimney, as is the case with other furnaces constructed with pipe collar on top.

### Foot Warmer

The Martha Washington Furnace is fitted with foot warmer, as explained on page 11. Foot warmer is especially desirable when persons enter the home with cold, wet feet.

Grained walnut finish.



"Draw up a chair and warm your feet"  
Illustration shows foot warmer in use



## Frances Washington Furnace

Burns wood or coal.

All extra heavy cast iron inner construction. (Not sheet steel.) The large heavy dome extends above pipe collar. The fuel gases and smoke rise to the top of this dome and are ignited before they have a chance to escape up the chimney and be wasted. This is one reason why the Frances Washington Furnace produces more heat with less fuel.

Heats from two to five rooms with circulating moist heat. Can be connected to any fireplace or grate with satisfactory results.

"Draw up a chair and warm your feet."

The heat unit of the Frances Washington Furnace is built close to the floor and will warm the floor around the furnace. This makes it possible for you to warm your feet around the Frances Washington Furnace. This is exceedingly desirable.

Easy to clean.

Grained mahogany and plain finishes.

Manufactured by

**GRAY & DUDLEY CO.,**

Nashville, Tenn.

"We melt 100,000 pounds of Southern Pig Iron per day"

ESTABLISHED 1862